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## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

WO 99/40200

(51) International Patent Classification 6:

C12N 15/31, 15/62, C07K 14/315, A61K  
39/02, 39/09

A1

(11) International Publication Number:

(43) International Publication Date: 12 August 1999 (12.08.99)

(21) International Application Number: PCT/US99/00379

(22) International Filing Date: 14 January 1999 (14.01.99)

(30) Priority Data: 09/017,782 3 February 1998 (03.02.98) US

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60606 (US).(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR,  
BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE,  
GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR,  
KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN,  
MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK,  
SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW,  
ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW),  
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR,  
GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF,  
BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN,  
TD, TG).

Published

With international search report.

Before the expiration of the time limit for amending the  
claims and to be republished in the event of the receipt of  
amendments.

(54) Title: RECOMBINANT LIPIDATED PsaA PROTEIN, METHODS OF PREPARATION AND USE

## (57) Abstract

The present invention relates to recombinant lipidated PsaA proteins and recombinant constructs from which such lipidated PsaA proteins may be expressed. The invention relates further to lipidated PsaA proteins in which lipidation is effected by the use of a heterologous leader sequence derived from the *ospA* gene of *Borrelia burgdorferi*, which leader sequence is joined in translational reading frame with the *psaA* structural gene. The invention also provides methods of preparation of lipidated PsaA proteins and use of such proteins in immunological compositions. Also provided are vaccines comprising immunogenic lipidated PsaA proteins and methods of use of such vaccines in the prevention and treatment of *S.pneumoniae* infection.